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latter part of the season did considerable field work, and reports upon a number of injurious species. Perhaps the most interesting feature of his report is his work upon the enemies of the codling moth in California. He has reared four entirely new parasites of this species, two of which are primary and two secondary. The egg parasite seems to be a very important feature in the life of the codling moth on the Pacific coast, and we know from previous experience with egg-parasites of the same genus that they are capable of very rapid development, and are consequently very beneficial insects where they attack injurious species. Professor Bruner treats of the insects of the year, and enters upon the consideration of insects detrimental to the growth of young trees on tree claims in Nebraska and other portions of the West, an important subject which has not before received treatment.

—No. 12 of Blakiston's (Philadelphia) series of "Quiz-Compend" has just been published. These compends are based on popular text-books and the lectures of prominent professors, and are kept constantly revised, so that they represent the present state of the subjects upon which they treat. The one now before us, No. 12, "A Compend of Equine Anatomy and Physiology," by Professor William R. Ballou, supplies for students of veterinary anatomy and physiology a work which will answer their needs not only as a text-book, but also for work in the dissecting-room. In its preparation the standard work of Chauveau has been followed in the main, though the works of Strangeways, Gray, and Quain have also been consulted. The work is illustrated with twenty-nine engravings, selected for the purpose from Chauveau's "Comparative Anatomy."

—Bulletin No. 24, from the Agricultural Experiment Station, Madison, Wis., is entitled "A New Method for the Estimation of Fat in Milk, Especially Adapted to Creameries and Cheese Factories." Dr. S. M. Babcock, chemist of the station, has devised a method for determining the amount of fat in milk, which appears to be simple, economical, and accurate. Briefly described the method is as follows. A carefully measured sample of milk is

placed in a test bottle having a long narrow neck. Next, an equal volume of sulphuric acid is added, and the bottle is placed in a wheel, which is revolved horizontally from six hundred to eight hundred times per minute, for about six minutes. At the end of this time the fat of the milk set free by the acid has risen to the top of the liquid. Hot water is then poured into the bottle, partly filling the neck. Upon again whirling for a couple of minutes the fat will rise through the water into the neck, in a long column, where it is easily read off by graduations on the neck. By this method the fat in skim milk, buttermilk, whey, cream, and even cheese can be determined.

—Messrs. Ginn & Co. have published "The Nine Worlds," by Mary E. Litchfield, being stories from the Norse mythology. The stories are based upon the Eddas, but the authoress has also relied much upon the best German and other authorities. Unfortunately, she has, as she admits in her preface, drawn largely upon her own imagination, the first story in the book having no foundation except a few lines of poetry, which really do not support it at all. Hence, though she tells us much about the mythology of the Norsemen, her book cannot be relied upon as an authority. The leading character in most of the myths is Loki, the spirit of evil, while Odin, Thor, and various other gods and giants, are brought prominently forward. The slaying of Baldur, who represents the summer sun, and the carrying off of Iduna, the goddess of spring, are among the most interesting myths. Miss Litchfield gives in an introduction an account of the Norse cosmology, and in an appendix a glossary of the names and attributes of the various gods and other personages. The book will interest those who like tales of the marvellous, and will impart some general information about the Norse mythology.

—The "Summary of the Seventh Annual Report of the Bureau of Statistics of Labor of the State of New York" contains matter of interest to economists. It is devoted to an account of the various strikes, lock-outs, and boycotts that have occurred in the State during the past five years, with statistical tables showing the

Publications received at Editor's Office,
July 21-Aug. 9.

- AMERICAN Association for the Advancement of Science, Proceedings of, Thirty-eighth Meeting, August, 1889. Salem, Permanent Secretary. 496 p. 8c.
- ANNUAL Report of the Chief Signal Officer of the Army to the Secretary of War, for the year 1889. Parts I and II. Washington, Government. 389 + 165 p. 8c.
- ANNUAL Report of the Department of Mines of New South Wales, 1889. Sydney, Government. 253 p. 1s.
- BUNYAN, John. Pilgrim's Progress. (Classics for Children.) Ed. by D. H. Montgomery. Boston, Ginn. 119 p. 12c. 35 cents.
- HARDY, A. S. Elements of the Differential and Integral Calculus. Boston, Ginn. 239 p. 8c. \$1.65.
- INTERNATIONAL Marine Conference, 1889, Proceedings of. Vols. I, II, and III. Washington, Government. 814 + 680 + 502 p. 8c.
- MIAMI Horticulturist. Vol. 1. No. 1. m. Bradford, Ohio, M. Cassel. 8 p. 4c. 25 cents per year.
- MONTGOMERY, D. H. Leading Facts of American History. Boston, Ginn. 412 p. 12c. \$1.10.
- MULLER, F. Max. Three Lectures on the Science of Language. Chicago, Open Court Publ. Co. 112 p. 8c. 75 cents.

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causes and results of the strikes and the costs to both parties. In giving the number of strikes, each establishment is reckoned separately, so that if a general strike occurred affecting a hundred establishments it counts in the report as a hundred strikes. On this basis it appears that during the five years from 1885 to 1889 the number of strikes in the State was 9,334, of which 5,866 were successful and 3,468 unsuccessful, while 50 were pending at the time of making up the report. The loss to the laborers is set down at over \$3,000,000, and the gain in wages for five years at upwards of \$18,000,000. Commissioner Peck thinks that there is no likelihood of a discontinuance of strikes, and believes that on

the whole they are beneficial to the laborers. He shows, however, that there is a strong disposition on the part of most labor organizations to exhaust all peaceful means of settling difficulties before striking, and quotes largely to this effect from their rules and regulations. The feeling of many employers about labor disputes is well expressed in a remark by one of their number which is quoted in the report: "When they have us down they give it to us; and when we have them down we give it to them" (p. 51). The commissioner believes, however, that "large-souled employers have no hard feelings against employees who protect themselves in an open and honorable manner."

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